CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-06/361/Cube/2017-18 17.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of the work**	:	Construction of RCC drains & CC roads at Lake view side Defence Colony at Mallasandra in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/100/2017-18 Dated: 13.06.2017
*** Sample ID**	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2017	17.07.2017	8.125	498.9	22.17
2	19.06.2017	17.07.2017	8.229	515.3	22.90
3	19.06.2017	17.07.2017	8.308	505.8	22.48

*Information is furnished by the Customer/Representative.

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager

AE-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.13/GSB-II/GR/2017-18 19.06.2017

TEST REPORT ON GRADATION FOR COARSE GRADED GARNULAR SUB BASE

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of work**	:	Construction of RCC drains & CC roads at Lake view side Defence Colony at Mallasandra in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/100/2017-18 Dated: 13.06.2017
*** Sample ID**	:	Coarse Graded-II
Technical Reference	:	IS : 2720 (Part - 4), MORTH Table : 400-02
Date of Testing	:	19.06.2017

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Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53	-	-	-	100	100
26.5	2265	2265	45.30	54.70	50-80
4.75	1545	3810	76.20	23.80	15-35
0.075	780	4590	91.80	8.20	0-10
PAN	410				
Total	5000				

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Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading II

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A.E.-13

Civil-tech Consultants & Engineers
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Job No.: CTCE/BBMP/KRIDL/W.No.13/GSB-II/AL/2017-18 Date 19.06.2017

TEST REPORT ON ATTERBERG LIMITS FOR GRANULAR SUB BASE

***Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
***Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
***Name of work**	:	Construction of RCC drains & CC roads at Lake view side Defence Colony at Mallasandra in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
***Reference**	:	BBMP/EE/DD/WO/100/2017-18 Dated: 13.06.2017
Sample ID	:	GSB- (Coarse graded-II)
Technical Reference	:	IS : 2720 (Part - 5) 1985 (RA-2010), MORTH Table : 400-01
Date of Testing	:	19.06.2017

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	22.45	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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M-13

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-06/361/Cube/2017-18 29.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of the work**	:	Construction of RCC drains & CC roads at Lake view side Defence Colony at Mallasandra in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/100/2017-18 Dated: 13.06.2017
*** Sample ID**	:	Dry Lean Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	Dry Lean Concrete
Compressive Strength as on	:	7^{th} day
Sample Received on	:	29.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.06.2017	29.06.2017	8.121	246.6	10.96
2	22.06.2017	29.06.2017	8.289	251.3	11.17
3	22.06.2017	29.06.2017	8.353	263.4	11.71

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VIDYARANI P.K.
Technical Manager

M-13

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-06/361/Cube/2017-18 30.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
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*** Name of the work**	:	Construction of RCC drains & CC roads at Lake view side Defence Colony at Mallasandra in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
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*** Sample ID**	:	Dry Lean Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	Dry Lean Concrete
Compressive Strength as on	:	7^{th} day
Sample Received on	:	30.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2017	30.06.2017	8.182	252.5	11.22
2	23.06.2017	30.06.2017	8.231	263.2	11.70
3	23.06.2017	30.06.2017	8.365	275.3	12.24

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